

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

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Surface Water

(Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

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Ground Water

(Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE October 14, 1985	APPLICATION NUMBER G2-26816	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME

City of Tumwater

ADDRESS (STREET)

2nd and Bates Street

(CITY)

Tumwater

(STATE)

Washington

(ZIP CODE)

98504

PUBLIC WATERS TO BE APPROPRIATED

SOURCE

7 wells (1-6 and 8)

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 3,050	MAXIMUM ACRE-FEET PER YEAR 1,465
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QUANTITY, TYPE OF USE, PERIOD OF USE

1,465 acre-feet per year
(supplemental)

Municipal supply
(13,076 projected population by
year 2005)

Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL

7 wells

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NW $\frac{1}{4}$ SW $\frac{1}{4}$	SECTION 35	TOWNSHIP N. 18	RANGE, (E. OR W.) W.M. 2W	W.R.I.A. 13	COUNTY Thurston
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by City of Tumwater.

State approved Class I Water System.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:

Started

COMPLETE PROJECT BY THIS DATE:

Complete

WATER PUT TO FULL USE BY THIS DATE:

February 1, 1993

REPORT

BACKGROUND:

On October 14, 1985, the City of Tumwater filed for a permit under the provisions of Chapters 90.03 and 90.44, Revised Code of Washington (RCW) to appropriate public ground water from 7 wells in the amount of 3,050 gallons per minute (gpm) for community domestic supply. The application was accepted for processing and assigned Application No. G2-26816. The priority date of this application is October 14, 1985.

A legal notice of the applicant's proposed appropriation was prepared and transmitted to the applicant together with publication instructions on December 2, 1985. The public notice appeared in The Daily Olympian on December 22 and 29, 1985. No objections were received as a result of the public notice.

INVESTIGATIONS:

In consideration of this application, Clay Keown conducted a field investigation on March 1, 1989. Gerry Loomis, the field supervisor, was present during the site visit. Other investigations included a review of pertinent state records and evaluating information submitted with the application.

As a result of these investigations, the following is reported.

This well field is located approximately 1/4 mile east of I-5 and Trosper Road within Tumwater City limits.

All 7 wells described under this application have been constructed, some as early as 1931. Wells 1 through 5 and 7 are covered under existing water rights as follows:

Well 1: Certificate No. 857-D, allows the withdrawal of 220 gallons per minute; 1 acre-foot per year (primary) for municipal supply.

Well 2: Certificate No. 858-D, allows the withdrawal of 350 gallons per minute; 423 acre-feet per year (primary) for municipal supply.

Well 3: Certificate No. 859-D, allows the withdrawal of 250 gallons per minute; 135 acre-feet per year (primary) for municipal supply.

Well 4: Certificate No. 547-A, allows the withdrawal of 750 gallons per minute; 250 acre-feet per year (primary) for municipal supply.

Well 5: Certificate No. 5402-A, allows the withdrawal of 500 gallons per minute; 91 acre-feet per year (primary), 709 acre-feet per year (supplemental) for municipal supply.

Well 7: Certificate No. 7582-A, allows the withdrawal of 500 gallons per minute; 750 acre-feet per year for municipal supply.

Application No. G2-26815 was filed to request an additional 250 gpm from Well 7 to provide peaking waters during certain summer months and will be used as an emergency backup source only.

The total rights currently enjoyed by the applicant amount to 2,570 gallons per minute, 1,650 acre-feet per year; 709 acre-feet supplemental to existing rights.

The City of Tumwater also filed application No. G2-26031 for well 8, which may be cancelled when this application (G2-26816) progresses to the permit stage, if the city ultimately keeps Well No. 8 with Application No. G2-26816.

This application was filed to grant water rights for wells 6 and 8 and to increase the capacity of the Palermo well field for anticipated future growth. An increase from 2,070 gallons per minute authorized under existing rights from this well field, to 3,050 gallons per minute is the purpose of this filing. Therefore, an increase of 980 gallons per minute from this system is the focus of this application.

In determining the water needs for the City of Tumwater in the year 2005, the annual quantity would be the summation of the average daily water requirements. For a projected population of 13,076 and based on an average daily use of 100 gallons per day per capita, the annual quantity would be 1,307,600 gallons per day or 1,465 acre-feet per year.

Therefore, this application will be considered for an additional 980 gallons per minute from seven wells in the Palermo Well Field and 1,465 acre-feet per year, supplemental to existing rights. The total annual quantity under all rights shall not exceed 1,650 acre-feet per year.

"The City of Tumwater is undertaking ground water studies for the Palermo Well Field. Information relating to the well production capacities and limits will be submitted to Ecology in a completion report prior to issuance of the final water right Certificate."

CONCLUSIONS:

In accordance with Chapters 90.03 and 90.44 RCW, I find there is water available for appropriation from the source in question and the appropriation as recommended is a beneficial use and will not impair existing rights or be detrimental to public welfare.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow appropriation of 3,050 gallons per minute (gpm) from 7 wells for municipal supply. The period of use shall be year-round as needed. The total annual withdrawal under all rights shall not exceed 1,650 acre-feet per year.

Approval shall be subject to the following provisions:

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gauge may be installed in addition to the access port.

The use of the waters to be appropriated under this application will be for a public water supply. The State Board of Health rules require every owner of a public water supply to obtain written approval from the Office of Water Supply, Department of Health, Mail Stop LD-11, Building 3, Olympia, Washington 98504, prior to any new construction or alterations of a public water supply.

An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through -040 (installation, operation, and maintenance requirements are attached).

A certificate of water right will not be issued until a final investigation is made.

The Water Resources Act of 1971 specifies certain criteria regarding utilization and management of the waters of the state in the best public interest. Favorable consideration of this application has been based on sufficient waters available, at least during portions of the year. However, it is pointed out to the applicant that this use of water may be subject to regulation at certain times, based on the necessity to maintain water quantities sufficient for preservation of the natural environment.

CONSERVATION AND WATER USE EFFICIENCY

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the state's water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this permit, the applicant shall prepare and implement a water conservation plan approved by Ecology. The standards for such a plan may be obtained from either the Department of Health or Ecology.

This permit is subject to the implementation of the minimum requirements established in the Interim Guidelines for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, July 1990, which is attached.

The instantaneous quantity appropriated by this document is considered to be a portion of the amount reserved by the adoption of Chapter 173-591, the Reservation of Future Public Water Supply For Thurston County. The priority date of this permit is October 14, 1985.

REPORTED BY: Wicki Windust DATE: May 11, 1992

The statutory fee for this application is \$20.00.